

**EAST Search History**

| Ref # | Hits | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|------|---|-----------------|------------------|---------|------------------|
| L2    | 22   | "tungsten trioxide" with "ammonium paratungstate"   | USPAT           | OR               | OFF     | 2009/07/07 13:19 |
| L3    | 6    | "ammonium paratungstate" with ("hydrochloric acid" or "HCL" )   | USPAT           | OR               | OFF     | 2009/07/07 13:20 |
| L4    | 848  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOSub3") same (nano or powder)   | USPAT           | OR               | OFF     | 2009/07/07 13:20 |
| L5    | 37   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOSub3") same (nano or powder) same (ammonium near3 paratungstate)                                     | USPAT           | OR               | OFF     | 2009/07/07 13:34 |
| L6    | 58   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOSub3") same (nano or powder) same (ammonium near3 paratungstate)                                     | US-PGPUB; USPAT | OR               | ON      | 2009/07/07 13:38 |
| L7    | 4    | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOSub3") same (nano or powder) same (ammonium near3 paratungstate) same ("hydrochloric acid" or "HCL") | US-PGPUB; USPAT | OR               | ON      | 2009/07/07 13:43 |
| L8    | 0    | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOSub3") same (nano or powder) same platlet  | US-PGPUB; USPAT | OR               | ON      | 2009/07/07 13:43 |

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|-----|-----|--|----------------------------------|----|----|------------------|
| L9  | 42  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder) same platelet  | US-PGPUB; USPAT                  | OR | ON | 2009/07/07 13:43 |
| L10 | 51  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same platelet  | US-PGPUB; USPAT                  | OR | ON | 2009/07/07 13:55 |
| L11 | 41  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and (platelet with nano)   | US-PGPUB; USPAT                  | OR | ON | 2009/07/07 13:58 |
| L12 | 3   | I11 not I10  | US-PGPUB; USPAT                  | OR | ON | 2009/07/07 13:58 |
| L13 | 41  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and (platelet with nano)   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 13:59 |
| L14 | 0   | I13 not I11  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:00 |
| L15 | 379 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and platelet   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:00 |
| L16 | 12  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and ("ammonium tungstate" same ("hydrochloric acid" or "HCl") same water)                      | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:16 |
| L17 | 1   | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with hydrate) and ("ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water)) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:19 |

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|-----|----|---|---|----|-----|---------------------|
| L18 | 1  | bulian-christopher-j.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:19 |
| L19 | 16 | dye-robert-c.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:19 |
| L20 | 4  | son-steven-f.in. and tungsten   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:19 |
| L21 | 9  | jorgensen-betty-s.in. and tungsten  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:22 |
| L22 | 13 | jorgensen-betty-s.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:22 |
| L23 | 4  | I22 not I21   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:22 |
| L24 | 1  | perry-w-lee.in. and tungsten  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:23 |
| L25 | 1  | perry-w-lee.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:23 |
| L26 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "W0sub3") with ((burn\$4 or evap\$4) with (water or hydrat\$4)) | USPAT                                     | OR | OFF | 2009/07/07<br>14:26 |
| L27 | 28 | ("ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>14:26 |

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| L28 | 0  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with hydrate) with (heat\$4 or calcin\$\$) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl")) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |
| L29 | 1  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) with (heat\$4 or calcin\$\$) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl"))             | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |
| L30 | 5  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl"))  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |
| L31 | 13 | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl"))  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |
| L32 | 11 | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water                                | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |
| L33 | 0  | nano same "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2009/07/07 14:27 |

|     |     |  |                                  |    |     |                  |
|-----|-----|--|----------------------------------|----|-----|------------------|
| L34 | 28  | "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2009/07/07 14:27 |
| L35 | 436 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder)  | USPAT                            | OR | OFF | 2009/07/07 14:28 |
| L36 | 30  | tenne.in.  | USPAT                            | OR | OFF | 2009/07/07 14:40 |
| L37 | 269 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder)  | US-PGPUB                         | OR | OFF | 2009/07/07 14:44 |
| L38 | 307 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder)  | US-PGPUB                         | OR | ON  | 2009/07/07 14:47 |
| L39 | 5   | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl")            | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2009/07/07 14:51 |
| L40 | 13  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl")            | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2009/07/07 14:52 |
| L41 | 11  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2009/07/07 14:52 |

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| L42 | 7   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same ((burn\$4 or evap\$4) same (water or hydrat\$4)) same (heat\$4 or calcin\$4) | USPAT           | OR | OFF | 2009/07/07 14:52 |
| L43 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ((burn\$4 or evap\$4) with (water or hydrat\$4))                             | USPAT           | OR | OFF | 2009/07/07 14:52 |
| L44 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous with (water or hydrat\$4)  | USPAT           | OR | OFF | 2009/07/07 14:52 |
| L45 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous  | USPAT           | OR | OFF | 2009/07/07 14:52 |
| L46 | 50  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous  | US-PGPUB; USPAT | OR | ON  | 2009/07/07 14:53 |
| L47 | 128 | "ammonium paratungstate" and ("hydrochloric acid" or "HCL" )  | USPAT           | OR | OFF | 2009/07/07 15:02 |
| L48 | 167 | "ammonium paratungstate" and ("hydrochloric acid" or "HCL" )  | US-PGPUB; USPAT | OR | OFF | 2009/07/07 15:06 |
| L49 | 16  | "ammonium paratungstate" same ("hydrochloric acid" or "HCL" )   | USPAT           | OR | OFF | 2009/07/07 15:07 |
| L50 | 6   | "ammonium paratungstate" with ("hydrochloric acid" or "HCL" )   | USPAT           | OR | OFF | 2009/07/07 15:07 |

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| L51 | 10  | L49 not L50  | USPAT              | OR | OFF | 2009/07/07<br>15:07 |
| L52 | 6   | "ammonium paratungstate" with ("hydrochloric acid" or "HCL" )  | USPAT              | OR | OFF | 2009/07/07<br>15:07 |
| L53 | 16  | "ammonium paratungstate" same ("hydrochloric acid" or "HCL" )  | USPAT              | OR | OFF | 2009/07/07<br>15:07 |
| L54 | 14  | photocatalyst with hydrate   | US-PGPUB;<br>USPAT | OR | ON  | 2009/07/07<br>15:07 |
| L55 | 576 | (slurry near3 solution) and tungsten near2 oxide   | US-PGPUB;<br>USPAT | OR | ON  | 2009/07/07<br>15:09 |
| S1  | 7   | ("5911965" or "4586143" or "5811662" or "4233339" or "5788738" or "5525264" or "5984997").pn.                              | USPAT              | OR | OFF | 2006/03/30<br>14:52 |
| S2  | 0   | ("5911965" or "4586143" or "5811662" or "4233339" or "5788738" or "5525264" or "5984997").pn. and "ammonium paratungstate" | USPAT              | OR | OFF | 2006/03/30<br>14:49 |
| S3  | 2   | ("5911965" or "4586143" or "5811662" or "4233339" or "5788738" or "5525264" or "5984997").pn. and ammonium                 | USPAT              | OR | OFF | 2006/03/30<br>14:49 |
| S4  | 21  | "tungsten trioxide" with "ammonium paratungstate"  | USPAT              | OR | OFF | 2006/03/30<br>14:53 |
| S5  | 6   | "ammonium paratungstate" with ("hydrochloric acid" or "HCL" )  | USPAT              | OR | OFF | 2007/07/16<br>16:02 |
| S6  | 732 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder)    | USPAT              | OR | OFF | 2006/03/30<br>17:11 |

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| S7  | 34  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder) same (ammonium near3 paratungstate)                                     | USPAT                            | OR | OFF | 2006/03/30 14:57 |
| S8  | 3   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder) same (ammonium near3 paratungstate) same ("hydrochloric acid" or "HCL") | USPAT                            | OR | OFF | 2006/03/30 15:04 |
| S9  | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder) same platlet  | USPAT                            | OR | OFF | 2006/03/30 15:04 |
| S10 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (nano or powder) same platelet   | USPAT                            | OR | OFF | 2006/03/30 15:04 |
| S11 | 1   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same platelet   | USPAT                            | OR | OFF | 2006/03/30 15:05 |
| S12 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and (platelet with nano)  | USPAT                            | OR | OFF | 2006/03/30 15:06 |
| S13 | 15  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and (platelet with nano)  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 15:09 |
| S14 | 249 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and platelet  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/31 16:28 |

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| S15 | 294 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and ("ammonium paratungstate")   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 15:40 |
| S16 | 20  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and ("ammonium paratungstate" same ("hydrochloric acid" or "HCl"))                             | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 15:49 |
| S17 | 20  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and ("ammonium tungstate" same ("hydrochloric acid" or "HCl"))                                 | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 15:50 |
| S18 | 11  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") and ("ammonium tungstate" same ("hydrochloric acid" or "HCl") same water)                      | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:09 |
| S19 | 1   | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with hydrate) and ("ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water)) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:44 |
| S20 | 1   | bulian-christopher-j.in.   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:10 |
| S21 | 16  | dye-robert-c.in.   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:11 |

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|-----|----|--|----------------------------------|----|----|------------------|
| S22 | 6  | dye-robert-c.in. and tungsten  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:11 |
| S23 | 3  | son-steven-f.in. and tungsten  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:12 |
| S24 | 9  | jorgensen-betty-s.in. and tungsten   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:12 |
| S25 | 1  | perry-w-lee.in. and tungsten   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:12 |
| S26 | 28 | ("ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water)  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:43 |
| S27 | 0  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "W0sub3") with hydrate) with (heat\$4 or calcin\$\$) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl") | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:47 |
| S28 | 1  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "W0sub3") ) with (heat\$4 or calcin\$\$) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl")             | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:48 |
| S29 | 5  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "W0sub3") ) with "ammonium paratungstate" with ("hydrochloric acid" or "HCl")  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/30 16:50 |

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|-----|-----|--|----------------------------------|----|-----|------------------|
| S30 | 13  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl")            | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:06 |
| S31 | 11  | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") ) same "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:09 |
| S32 | 0   | nano same "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:09 |
| S33 | 28  | "ammonium paratungstate" same ("hydrochloric acid" or "HCl") same water  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:10 |
| S34 | 644 | 423/53.ccls.   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:11 |
| S35 | 203 | 423/53.ccls. and tungsten  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/30 17:11 |
| S36 | 382 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder)  | USPAT                            | OR | OFF | 2006/03/30 17:11 |
| S37 | 5   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder) and S34  | USPAT                            | OR | OFF | 2006/03/30 17:15 |

|     |     |   |       |    |     |                     |
|-----|-----|---|-------|----|-----|---------------------|
| S38 | 0   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder) same ("(NH. <sub>4</sub> ).sub.6W.sub.7O. <sub>24</sub> 6H.sub.2O") | USPAT | OR | OFF | 2006/03/30<br>17:16 |
| S39 | 598 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder) same ammonium paratungstate   | USPAT | OR | OFF | 2006/03/30<br>17:17 |
| S40 | 15  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder) same "ammonium paratungstate"                                       | USPAT | OR | OFF | 2006/03/30<br>17:23 |
| S41 | 5   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with (nano or powder) same "tungstic acid" same (heat\$4 or calcin\$4)                    | USPAT | OR | OFF | 2006/03/30<br>17:26 |
| S42 | 56  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same "tungstic acid" same (heat\$4 or calcin\$4)  | USPAT | OR | OFF | 2006/03/30<br>17:33 |
| S43 | 38  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same (hydrat \$4) same (heat\$4 or calcin \$4)  | USPAT | OR | OFF | 2006/03/30<br>17:36 |

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|-----|----|---|-------|----|-----|---------------------|
| S44 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same ((burn\$4 or evap\$4) with (water or hydrat\$4)) same (heat\$4 or calcin\$4) | USPAT | OR | OFF | 2006/03/30<br>17:36 |
| S45 | 7  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same ((burn\$4 or evap\$4) same (water or hydrat\$4)) same (heat\$4 or calcin\$4) | USPAT | OR | OFF | 2006/03/30<br>17:51 |
| S46 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ((burn\$4 or evap\$4) with (water or hydrat\$4))                             | USPAT | OR | OFF | 2006/03/30<br>17:51 |
| S47 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with andhydrous with (water or hydrat\$4)   | USPAT | OR | OFF | 2006/03/30<br>17:52 |
| S48 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with andhydrous   | USPAT | OR | OFF | 2006/03/30<br>17:52 |
| S49 | 0  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with andhydrous   | USPAT | OR | OFF | 2006/03/30<br>17:52 |
| S50 | 35 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous  | USPAT | OR | OFF | 2006/03/30<br>17:52 |

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| S51 | 0      | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous with (heat\$4 or calcin\$4)                                   | USPAT | OR | OFF | 2006/03/30 17:53 |
| S52 | 35     | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous   | USPAT | OR | OFF | 2006/03/30 17:54 |
| S53 | 8      | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with anhydrous same (heat\$4 or burn\$4 or calcin\$4 or evaporat\$4)         | USPAT | OR | OFF | 2006/03/30 17:56 |
| S54 | 36     | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" same (heat\$4 or burn \$4 or calcin\$4 or evaporat \$4) | USPAT | OR | OFF | 2006/03/30 17:57 |
| S55 | 18     | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" with (heat\$4 or burn \$4 or calcin\$4 or evaporat \$4) | USPAT | OR | OFF | 2006/03/30 18:03 |
| S56 | 0      | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" with temp\$6  | USPAT | OR | OFF | 2006/03/30 18:04 |
| S57 | 361301 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" dame temp\$6  | USPAT | OR | OFF | 2006/03/30 18:04 |

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| S58 | 1  | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" same temp\$6   | USPAT | OR | OFF | 2006/03/30<br>18:04 |
| S59 | 26 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with "tungstic acid" same temp\$9   | USPAT | OR | OFF | 2006/03/31<br>12:48 |
| S60 | 26 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ("tungstic acid" or "H.sub.2WO.<br>sub.4") same temp\$9  | USPAT | OR | OFF | 2006/03/31<br>12:49 |
| S61 | 26 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ("tungstic acid" or "H.sub.2WO.<br>sub.4" or "H.sub2WO.<br>sub4" or<br>"Hsub.2WOsub.4") same<br>temp\$9  | USPAT | OR | OFF | 2006/03/31<br>12:49 |
| S62 | 26 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ("tungstic acid" or "H.sub.2WO.<br>sub.4" or "H.sub2WO.<br>sub4" or<br>"Hsub.2WOsub.4" or<br>"Hsub2WOsub4") same<br>temp\$9  | USPAT | OR | OFF | 2006/03/31<br>12:51 |
| S63 | 34 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with ("tungstic acid" or "H.sub.2WO.<br>sub.4" or "H.sub2WO.<br>sub4" or<br>"Hsub.2WOsub.4" or<br>"Hsub2WOsub4") same<br>(heat\$4 or calcin\$4 or evap<br>\$4 or burn\$4) | USPAT | OR | OFF | 2006/03/31<br>12:51 |

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| S64 | 2    | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with hydrate) and platelet  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:19 |
| S65 | 5656 | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") with water or "H.sub.2O" or "H.sub2O" or "Hsub.2O" or "Hsub2O" or "H2O") and platelet               | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:20 |
| S66 | 5648 | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") near2 water or "H.sub.2O" or "H.sub2O" or "Hsub.2O" or "Hsub2O" or "H2O") and platelet              | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:20 |
| S67 | 8    | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") near2 (water or "H.sub.2O" or "H.sub2O" or "Hsub.2O" or "Hsub2O" or "H2O")) and platelet            | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:27 |
| S68 | 8    | ((("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") near2 (water or "H.sub.2O" or "H.sub2O" or "Hsub.2O" or "Hsub2O" or "H2O" or aqueous)) and platelet | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:28 |
| S69 | 8582 | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same platelet   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:29 |
| S70 | 27   | ("tungsten trioxide" or "tungstic anhydride" or "WO.sub.3" or "WO.sub3" or "WOsub.3" or "WOsub3") same platelet   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/03/31 16:45 |

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|-----|-------|---|----------------------------------|----|-----|------------------|
| S71 | 4     | ("tungstic acid") same platelet                               | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2006/03/31 16:46 |
| S72 | 16357 | (slurry near3 solution)                                       | USPAT                            | OR | OFF | 2006/10/17 12:39 |
| S73 | 271   | (slurry near3 solution) and tungstate                         | USPAT                            | OR | OFF | 2006/10/17 12:40 |
| S74 | 553   | (slurry near3 solution) and tungsten with oxide               | USPAT                            | OR | OFF | 2006/10/17 14:38 |
| S75 | 244   | (slurry near3 solution) and tungsten near2 oxide              | USPAT                            | OR | OFF | 2006/10/17 14:38 |
| S76 | 1     | "20020005145"   | US-PGPUB                         | OR | OFF | 2006/10/18 11:02 |
| S77 | 0     | S76 and ((photocatalytic or photocatalyst) same hydrate)      | US-PGPUB                         | OR | ON  | 2006/10/18 11:11 |
| S78 | 21    | platelet same hydrate and tungsten                            | US-PGPUB; USPAT                  | OR | ON  | 2006/10/18 11:06 |
| S79 | 1     | S76 and ((photocatalytic or photocatalyst) same core)         | US-PGPUB                         | OR | ON  | 2006/10/18 11:33 |
| S80 | 0     | "tungsten trioxide" with hydrate same semiconductor           | US-PGPUB                         | OR | ON  | 2006/10/18 11:33 |
| S81 | 2     | "tungsten trioxide" with hydrate and semiconductor            | US-PGPUB                         | OR | ON  | 2006/10/18 11:36 |
| S82 | 3     | "tungsten trioxide" with hydrate and semiconductor            | US-PGPUB; USPAT                  | OR | ON  | 2006/10/18 11:48 |
| S83 | 9     | photocatalyst with hydrate                                    | US-PGPUB; USPAT                  | OR | ON  | 2006/10/18 11:48 |
| S84 | 16    | "ammonium paratungstate" same ("hydrochloric acid" or "HCL" ) | USPAT                            | OR | OFF | 2007/07/16 16:02 |
| S85 | 6     | "ammonium paratungstate" with ("hydrochloric acid" or "HCL" ) | USPAT                            | OR | OFF | 2007/07/16 16:02 |
| S86 | 10    | S84 not S85   | USPAT                            | OR | OFF | 2007/07/16 16:02 |
| S87 | 117   | "ammonium paratungstate" and ("hydrochloric acid" or "HCL" )  | USPAT                            | OR | OFF | 2007/07/16 16:02 |

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| S88 | 107 | S87 not S86               | USPAT                                     | OR | OFF | 2007/07/16<br>16:02 |
| S89 | 665 | 423/53.ccls.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>09:48 |
| S90 | 213 | 423/53.ccls. and tungsten | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2009/07/07<br>09:49 |

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